

In the Specification

Applicant presents replacement paragraphs below indicating the changes with insertions indicated by underlining and deletions indicated by strikeouts and/or double bracketing.

Please amend the “Related Applications” section beginning at page 1, line 3 as follows:

Related Applications

This application is a continuation of U.S. Application No. 09/404,912, filed on September 24, 1999, which claims priority to U.S. Provisional Application No. 60/101,757, filed September 28, 1998, the entire contents of which is herein incorporated by reference.

Please amend the "Brief Description Of the Sequences" section beginning at page 13, line 18 as follows:

Brief Description Of The Sequences

SEQ. ID. NO. 1 is CAGNNNCTG

SEQ. ID. NO. 2 is TTTTTTTTCAG

SEQ. ID. NO. 3 is CTT GCA GTG AGC CGA GATC

SEQ. ID. NO. 4 is CTCGAGNNNNNAAGCGATG

SEQ ID NO. 5- [697]691 are nucleotide sequences containing SNPs.

Please replace pages 61 - 72 with the amended pages as follows:

73	tgaatgacaaaaagaca tgaatgacgaaaagaca	A B	129/B6/FVB F1/cast	251 252
B2 5'Rev	ACTGAGCCATCTCWCCAG		W=A+T	<u>253</u>
101	acttaacttaaggctggc gtacttaa----gctggcctg	A B	129/ b6/fvb/f1	[253] <u>254</u> [254] <u>255</u>
102	actctaatacccacag actctaattccccacag	A B	129/fvbn/f1 b6	[255] <u>256</u> [256] <u>257</u>
	cggatcggtcttagttc cggatcagtcgttagttc	C D	129/cast spre	[257] <u>258</u> [258] <u>259</u>

103	tcaaaccataaggagg tcaaaccagttaaggagg	A B	129/b6/fvb/f1 f1	[259] <u>260</u> [260] <u>261</u>
104	gtgtgtgtgggggg gtgtgtgt---gggggggt	A B	129/f1 b6/fvbn	[261] <u>262</u> [262] <u>263</u>
	cttaataataattcat cttaataacaattcat	C D	129/cast spre	[263] <u>264</u> [264] <u>265</u>
105	gtgtctccatatgtgt gtgtctacacatgtgt	A B	129/b6/f1 fvbn	[265] <u>266</u> [266] <u>267</u>
106	aactcatcatgtggtt aactcataatgtggtt aactcatcacatgtggtt	A B C	129/ b6/fvbn/f1 cast	[267] <u>268</u> [268] <u>269</u> [269] <u>270</u>
	atcactcatagcccaga atcacttatagcccaga atcactcatatcccaga	D F E	129/ spre cast	[270] <u>271</u> [271] <u>272</u> [272] <u>273</u>
107	catcttaccagcattga catcttactagcattga	A B	129/cast/spre b6/fvbn/f1	[273] <u>274</u> [274] <u>275</u>
108	agttagccggctctggc agttagccagctctggc	A B	129/b6/f1 fvbn/f1	[275] <u>276</u> [276] <u>277</u>
	gggttaggagtggggatgag gggcaggagtgggggtgag gggttaggagtgggggtgag	C E D	129/ spre cast	[277] <u>278</u> [278] <u>279</u> [279] <u>280</u>
109	tcagtattgttcttc tcagtattttcttc	A B	129/f1/spre b6/fvbn/f1/cast	[280] <u>281</u> [281] <u>282</u>
110	agcagagactgagctcg agcagagaccgagctcg	A B	129/ b6/fvbn/f1	[282] <u>283</u> [283] <u>284</u>
	acaggggtcgattcgtc acagggatcgattcgtc acaggggtcgttcgtc	C E D	129/b6/fvbn/f1/cast spre f1	[284] <u>285</u> [285] <u>286</u> [286] <u>287</u>
111	tccaaagcattcaagg tccaaagtattcaagg	A B	129/b6/f1 fvbn/f1	[287] <u>288</u> [288] <u>289</u>
	gaccagggttaatgact gaccagggttaatgact	C D	129/b6 cast/spre	[289] <u>290</u> [290] <u>291</u>

112	ctattaacagagtgcag ctattaacggagtgcag	A B	129/b6/f1 fvbn	[300] <u>292</u> [301] <u>293</u>
	gtgatactggatgtctg gtgataccg-atgtctgg	C D	129/b6 cast/spre	[302] <u>294</u> [303] <u>295</u>
113	ctctctcgatagtctaa ctctctcgctagtctaa	A B	129/f1 b6/fvbn/f1/cast	[304] <u>296</u> [305] <u>297</u>
	tctctcgatagtcataat tctctcgctggctaat	C D	129/ cast	[306] <u>298</u> [307] <u>299</u>
114	agatgcaaaattcttag agatgcacagttcttag	A B	129/ b6/fvbn/f1	[308] <u>300</u> [309] <u>301</u>
115	ggaaaatgctcaggtag ggaaaatgttcaggtag	A B	129/f1/cast/spre b6/fvbn	[310] <u>302</u> [311] <u>303</u>
116	tctgggcagagtgcagg tctggcagcgtgcagg	A B	129/ b6/fvb/f1	[312] <u>304</u> [313] <u>305</u>
117	tatggaacggttgcttc tatggaactgttgcttc	A B	129/fvb b6/f1	[314] <u>306</u> [315] <u>307</u>
	aagcctggtacccgctg aagcctggcacccgctg	C D	129/cast spre	[316] <u>308</u> [317] <u>309</u>
118	cattttttttctga cattttcgtttctga	A B	129/ b6/fvbn/f1/cast/spre	[318] <u>310</u> [319] <u>311</u>
	ctgcaggcttgtctgtg ctgcaggttgtctgtg	C D	129/CAST spre	[320] <u>312</u> [321] <u>313</u>
119	tgcatttcctataaca tgccatttgctataaca	A B	129/f1 b6/fvbn	[322] <u>314</u> [323] <u>315</u>
120	ccgccacaccccgtcct ccgccacagccgtcct	A B	129/b6 fvbn/f1	[324] <u>316</u> [325] <u>317</u>
121	caaataatgttagttat caaataatgttagttat	A B	129/b6/f1 fvbn	[326] <u>318</u> [327] <u>319</u>
122	ggatgttgcacacgctac ggatgttgtcacgctac	A B	129/fvbn/f1 b6/f1	[328] <u>320</u> [329] <u>321</u>
	catgtgtc-caacgccccat	C	129/	[330] <u>322</u>

	catgtgtcacaacgcca	D	cast/spre	[331]	<u>323</u>
123	aaaggggcctaaagga	A	129/fvbn/f1	[332]	<u>324</u>
	aaagggcctaaagga	B	b6	[333]	<u>325</u>
124	tgaaaagtctttcat	C	129/cast	[334]	<u>326</u>
	tgaaaagtactttcat	D	spre	[335]	<u>327</u>
125	cctcttatgtgagc	A	129/b6/f1	[336]	<u>328</u>
	cctctcacgtgagc	B	fvbn	[337]	<u>329</u>
126	gaagtttaggagattct-t	C	129/	[338]	<u>330</u>
	gaagatttaggagagtctc	D	spre	[339]	<u>331</u>
127	aggatgtatTTgtta	A	129/fvbn/f1	[340]	<u>332</u>
	aggatgtgtttgtta	B	b6	[341]	<u>333</u>
128	acaattcaaATgtatat	C	129/cast	[342]	<u>334</u>
	acaattcatATgtatat	D	spre	[343]	<u>335</u>
129	cttgccTAAACCTGcaca	A	129/b6/f1	[344]	<u>336</u>
	cttgccTAGCCTGcaca	B	fvbn	[345]	<u>337</u>
130	caacAGC---ACCTCATATC	C	129/bt/cast	[346]	<u>338</u>
	acagcGGTGCCTCGTAT	D	spre	[347]	<u>339</u>
131	actcacAGTGTcAGGc	A	129/fvbn/f1/spre	[348]	<u>340</u>
	actcacAGCgtcAGGc	B	b6/cast	[349]	<u>341</u>
132	ggctgctcTGtGTCTG	A	129/fvbn/f1/cast	[350]	<u>342</u>
	ggcttcTGtGTCTG	B	b6	[351]	<u>343</u>
	ggctgctcTGtGTTCTG	C	spre	[352]	<u>344</u>
133	aatAGATGCCCTCTGA	A	129/f1	[353]	<u>345</u>
	aatAGATGCCCTCTGA	B	b6/fvbn	[354]	<u>346</u>
	aatcGATGCCCTCTGA	C	spre	[355]	<u>347</u>
134	ttggTCTAGCAGGTAGC	A	129/fvbn/f1	[356]	<u>348</u>
	ttggTCTACCAGGTAGC	B	b6	[357]	<u>349</u>
135	agcTTGGCTTAAAAA	C	129/cast	[358]	<u>350</u>
	agcTTGGTCTTAAAAA	D	spre	[359]	<u>351</u>
136	agtCTCTGGCGCCttG	A	129/fvbn/f1/cast/spre	[360]	<u>352</u>
	agtCTCTGCGCGCttG	B	b6	[361]	<u>353</u>

132	tagcaggaggcacagctta aaggcaggaggcacacaactta aaggcaggaggcacagctta tagcaggaggcacagcttg	A B C D	129/ b6 fvb/f1/CAST spre	[362] <u>354</u> [363] <u>355</u> [364] <u>356</u> [365] <u>357</u>
133	aggagagacggactcc aggagagagcggactcc	A B	129/fvb/f1 b6	[366] <u>358</u> [367] <u>359</u>
134	tacaagtcatccttcct tacaagtctgtccttcct	A B	129/b6/f1 fvbn/f1	[368] <u>360</u> [369] <u>361</u>
	atacctccctcagacaa atacctcc-tcagacaag	C D	129/cast spre	[370] <u>362</u> [371] <u>363</u>
135	aaacaaaacaaacaaacc aaacaaaaccaacaaacc	A B	129/b6/f1/cast/spre fvbn	[372] <u>364</u> [373] <u>365</u>
	gtgcgccaccatgacca gtgcgccatcatgacca	C D	129/cast spre	[374] <u>366</u> [375] <u>367</u>
136	ggctttcccattagtgg ggctttcctattagtgg	A B	129/ b6/fvbn/f1	[376] <u>368</u> [377] <u>369</u>
	ccctcacctctctca ccctcacccctctctca	C D	129/cast spre	[378] <u>370</u> [379] <u>371</u>
137	aatctctcgcggttcatt aatctctcacgttcatt	A B	129/fvbn/f1 b6	[380] <u>372</u> [381] <u>373</u>
138	aatgataccgatccta aatgatacagatccta	A B	129/f1 b6/fvbn	[382] <u>374</u> [383] <u>375</u>
	ataaaaactgcaattcgtg ataaaaactacattcgtg	C D	129/b6 cast/spre	[384] <u>376</u> [385] <u>377</u>
B1Musch	AGTTCCAGGACAGCCAGG			<u>378</u>
201	atatctccgactttgaa atatctccaactttgaa	A B	129/cast b6/fvb/f1/spre	[386] <u>379</u> [387] <u>380</u>
	tggccctgcagagtctg tggctctgcagag-ctgg	C D	129-Cast Spre	[388] <u>381</u> [389] <u>382</u>
202	caatggatc---aaagatgc atggatcaacaaagatg	A B	129-FVB-F1 B6	[390] <u>383</u> [391] <u>384</u>

	gctgcctc---aaggtataa	C	129/b6	[392]	<u>385</u>
203	ctgcctctaaggta	D	cast/spre	[393]	<u>386</u>
	acctatggctccatc	A	129/b6/f1	[394]	<u>387</u>
	acctatggtcctcatc	B	fvb	[395]	<u>388</u>
	tcttctccctgttta	C	129-Cast	[396]	<u>389</u>
	tcttctcac-tgcttag	D	Spre	[397]	<u>390</u>
204	ccgc-ataaaaagctgag	A	FVB-F1	[398]	<u>391</u>
	ccgccataaaa-gctgag	B	B6-F1	[399]	<u>392</u>
	agaatatagggttttt	C	129/cast	[400]	<u>393</u>
	tagaatacag--tttttt	D	spre	[401]	<u>394</u>
205	agagttgctgtcaggg	A	129/b6/f1	[402]	<u>395</u>
	agagttgccgtcaggg	B	fvb/cast	[403]	<u>396</u>
	agagttgcagtgcaggg	C	spre	[404]	<u>397</u>
206	taagcagtgttcttggc	A	129-B6-F1	[405]	<u>398</u>
	taagcagtattcttggc	B	FVBN	[406]	<u>399</u>
	tcttctccctgttta	C	129/Cast	[407]	<u>400</u>
	tcttctcac-tgcttag	D	spre	[408]	<u>401</u>
207	tttttttttattattga	A	129/fvb/f1	[409]	<u>402</u>
	ttttttttt-attattgaa	B	b6	[410]	<u>403</u>
	tgtggtacgcacatctg	C	129-Cast	[411]	<u>404</u>
	tgtggtacacacatctg	D	Spre	[412]	<u>405</u>
208	agactcttagacttctg	A	129/f1	[413]	<u>406</u>
	agactcttaggttctg	B	b6/fvb/f1	[414]	<u>407</u>
	agactcataagcttctg	C	spre	[415]	<u>408</u>
	agactcttaggttctg	D	cast	[416]	<u>409</u>
209	cacgtacccgaacgtga	A	129-B6	[417]	<u>410</u>
	cacgtacctgaacgtga	B	FVB-F1	[418]	<u>411</u>
	attacggttgtcgta	C	129/CAST	[419]	<u>412</u>
	attacggtgtgtcgta	D	spre	[420]	<u>413</u>
210	ccaagatacgaaaccag	A	129/f1/cast/spre	[421]	<u>414</u>
	ccaagatatgaaaccag	B	b6	[422]	<u>415</u>
211	tgcaatgaccagcaacc	A	129/b6	[423]	<u>416</u>

	tgcaacgaccagcaacc tgtaacgaccaacaact	B C	fvb/f1/cast spre	[424] <u>417</u> [425] <u>418</u>
212	tctaaaggaaagatgg tctaaagg-aaagatgga	A B	129-FVB B6-F1	[426] <u>419</u> [427] <u>420</u>
213	ctggactcatacataca ctggactcgatcataca	A B	129-FVB-F1 B6-F1-Cast/SPRE	[428] <u>421</u> [429] <u>422</u>
	agtttggcccccggac agtttggtttcctggac	C D	129/FVB/B6-F1-Cast Spre	[430] <u>423</u> [431] <u>424</u>
214	tatagcttcatgtaaaa tatagctttatgtaaaa	A B	129/fvb/f1/cast/spre b6	[432] <u>425</u> [433] <u>426</u>
215	tttttttt-attattgaa tttttttttattattga	A B	129 B6-FVB-F1	[434] <u>427</u> [435] <u>428</u>
	actcattgccaatttaa actcattcagaatttaa	C D	129 spre/CAST	[436] <u>429</u> [437] <u>430</u>
216	atgcgtaatggggcta atgcgtaacggggcta	A B	129 b6/fvb/f1/cast/SPRE	[438] <u>431</u> [439] <u>432</u>
	ataattgcttttaaa gtaattgcttttaaa	C D	129/b6/fvb/f1/cast spre	[440] <u>433</u> [441] <u>434</u>
217	tctgattagtgtatggat tctgatta-tgatggatt	A B	129-F1 B6	[442] <u>435</u> [443] <u>436</u>
	agcagagtgtctcgtaa agcagagtatctcgtaa	C D	129 spre/CAST	[444] <u>437</u> [445] <u>438</u>
218	gctggcagatatcggt gctggcaggtatcggt	A B	129/b6/f1 fvb/cast	[446] <u>439</u> [447] <u>440</u>
219	aactgcaatgaccagca aactgcaacgaccagca	A B	129-B6 FVB-F1	[448] <u>441</u> [449] <u>442</u>
	gctggtcattgcagttt gttggtcgtacagttt gctggtcgtgcagttt	C D E	129 spre cast	[450] <u>443</u> [451] <u>444</u> [452] <u>445</u>
220	gctggcagatatcggt gctggcaggtatcggt	A B	129-B6-F1 FVB	[453] <u>446</u> [454] <u>447</u>

	atagaaagtccaccgtc atagaaagcccaccgtc	C D	129/cast spre	[455] <u>448</u> [456] <u>449</u>
221	ttagtgacctgttaaac ttagtgactgtgttaaac	A B	129/b6/f1 fvb	[457] <u>450</u> [458] <u>451</u>
	ggggaggagactttgttc ggggaggatcttgttc	C D	129-Cast Spre	[459] <u>452</u> [460] <u>453</u>
222	ggcctggacacaaaagc ggcctggaaacaaaagc	A B	129/fvb/f1 b6	[461] <u>454</u> [462] <u>455</u>
	ccctttcttagtattgt ccctttccagtttgt	C D	129 Cast-Spre	[463] <u>456</u> [464] <u>457</u>
223	gaattggtttaggaat gaattggtatttaggaat	A B	129-F1-Cast-Spre B6	[465] <u>458</u> [466] <u>459</u>
224	acccagcttccatggt acccagctctccatggt	A B	129/f1 b6/fvb/CAST	[467] <u>460</u> [468] <u>461</u>
225	tcacgttcgggtacgtg tcacgttcaggtacgtg	A B	129/b6/f1 fvb/f1	[469] <u>462</u> [470] <u>463</u>
	tgcctccgggtggcaa tgcctccagttggcaa	C D	129-Cast Spre	[471] <u>464</u> [472] <u>465</u>
226	tttatcatacaattgc tttatcagacaattgc	A B	129-F1 B6-FVB-F1	[473] <u>466</u> [474] <u>467</u>
227	atcttctctttttag atcttctctttttag	A B	129/f1 b6/fvb	[475] <u>468</u> [476] <u>469</u>
	cagtcctctgtttctc cagtcctcagtttctc	C D	129-Cast Spre	[477] <u>470</u> [478] <u>471</u>
228	ccaagatacgaaaccag ccaagatatgaaaccag	A B	129/f1/spre b6	[479] <u>472</u> [480] <u>473</u>
229	ggtattcaagggtact ggtattca-gggttactg	A B	129/cast/spre b6/fvb 1bp del.	[481] <u>474</u> [482] <u>475</u>
230	acctatggctctcatc acctatggttccatc	A B	129/b6/f1/cast fvb	[483] <u>476</u> [484] <u>477</u>
231	tttatcatacaattgc	A	129/f1	[485] <u>478</u>

	tttatcagacaattgc	B	b6/fvb	[486]	<u>479</u>
232	aaccagggcttaagtct	A	129	[487]	<u>480</u>
	aaccagggattaagtct	B	b6/fvb/f1	[488]	<u>481</u>
234	cagaaaaacagatatac	C	129-B6-FVB-F1	[489]	<u>482</u>
	cagaaaaagagatatac	D	Spre	[490]	<u>483</u>
235	tctgagcgtgagtgctg	A	129/fvb	[491]	<u>484</u>
	tctgagcgcgagtgctg	B	b6/f1/cast/spre	[492]	<u>485</u>
	acctcagaagcggaggt	C	129-B6-FVB-F1	[493]	<u>486</u>
236	acctcggaaaggggaggt	D	Spre	[494]	<u>487</u>
	acctcggaaagcggaggt	E	Cast	[495]	<u>488</u>
	taactcgatcgctatca	A	129-B6-F1	[496]	<u>489</u>
237	taactcgcttgcstatca	B	FVBN-Cast	[497]	<u>490</u>
	taactcgctcgctatca	C	Spre	[498]	<u>491</u>
	gaatttctcaacttctt	A	129/fvb/f1/spre	[499]	<u>492</u>
238	gaatttctgaacttctt	B	b6/f1	[500]	<u>493</u>
	caggggtccccaatttg	A	129/f1/SPRE	[500]	<u>494</u>
239	caggggtctccaatttg	B	b6/fvb	[501]	<u>495</u>
	tttgctgtgc-aggcta	A	129-B6-F1	[502]	<u>496</u>
240	tttactgtgccaggct	B	FVB	[503]	<u>497</u>
	gacagccctgtctcaa	C	129/cast	[504]	<u>498</u>
241	agagaaaaccctgtctca	D	spre	[505]	<u>499</u>
	gcaccggctgaggcgt	A	129/f1	[506]	<u>500</u>
241	gcaccggttggaggcgt	B	b6/fvb/f1	[507]	<u>501</u>
	ccgtccccctgaacaat	C	129-B6-FVB-F1-Cast	[508]	<u>502</u>
241	ccgtcccccttgaacaat	D	Spre	[509]	<u>503</u>
	tcacgttcgggtacgtg	A	129/b6/f1	[510]	<u>504</u>
241	tcacgttcaggtagtgc	B	fvb/f1	[511]	<u>505</u>
	tgattcgcgtggactct	C	129-Cast	[512]	<u>506</u>
241	tgattcgccggactct	D	Spre	[513]	<u>507</u>
	ttgatatccgaggcctt	A	129/b6/fvb/f1	[514]	<u>508</u>
241	ttgatatctgaggcctt	B	f1/CAST/SPRE	[515]	<u>509</u>

242	tccctggccaagcata tccctggcaagcata	A B	129/b6/fvb f1	[516] <u>510</u> [517] <u>511</u>
243	ttatggctgaggatcac ttatggctcggtcat ttatggcagggatcac	A B C	129-B6-F1-Cast FVB Spre	[518] <u>512</u> [519] <u>513</u> [520] <u>514</u>
244	ctctctgcgctgaagca ctctctgctctgaagca	A B	129/b6 fvb/f1	[521] <u>515</u> [522] <u>516</u>
	agatacagagatgttt agatactgaggtgttt	C D	129-B6-FVB-F1 Spre	[523] <u>517</u> [524] <u>518</u>
245	cgcacatctggcagatgt cgcacatctagcagatgt	A B	129/f1 b6/fvb	[525] <u>519</u> [526] <u>520</u>
	gtcacaaatagtatttc gtcacaaagagtatttc	C D	129/cast Spre	[527] <u>521</u> [528] <u>522</u>
246	aaggtgtgtgcgtgt aaggtgtgcgcgtgt	A B	129/f1 fvb	[529] <u>523</u> [530] <u>524</u>
247	agtcttttttctga tagtc-tttttttt-cctgaa	A B	129-B6-FVB F1	[531] <u>525</u> [532] <u>526</u>
248	caggctgtgggaggctt caggctgcggaggctt	A B	129/b6/f1 fvb	[533] <u>527</u> [534] <u>528</u>
	ctgttaagtattcaata ctgttaagtattcaata	C D	129-B6-FVB-F1-Cast Spre	[535] <u>529</u> [536] <u>530</u>
249	caggggtcccccaatttg caggggtctccaatttg	A B	129/f1 b6/fvb	[537] <u>531</u> [538] <u>532</u>
250	gactcatggccgccttg gactcattggccgcctgg gactcctggccgcctgg gactcctggctgcctgg gactcctggccgcctgg	A B C D E	129 B6-FVB-F1 F1 Spre Cast	[539] <u>533</u> [540] <u>534</u> [541] <u>535</u> [542] <u>536</u> [543] <u>537</u>
251	acagggga-ggaaggaag acaggggaaggaaaggaa	A B	129 b6/fvb/f1	[544] <u>538</u> [545] <u>539</u>
252	ttgatataattgattc ttgatataattgattc	A B	129/b6/f1 fvb/f1	[546] <u>540</u> [547] <u>541</u>

	atagaacagcaaagtaa atagaacaacaaagtaa	C D	129-B6-FVB-F1-Cast Spre	[548] [549]	<u>542</u> <u>543</u>
253	aacaaggcatctatggat aacaaggcacctatggat	A B	129/fvb/f1 b6	[550] [551]	<u>544</u> <u>545</u>
DOP					
300	gagcaggtaagcgatg gagcaggtaagcgatg	A B	129/ B6	[552] [553]	<u>546</u> <u>547</u>
301	ggcttccagctgattc ggcttccaacttgcattc	A B	129/ B6	[554] [555]	<u>548</u> <u>549</u>
302	agatagggatgaatccc agataggggtgaatccc	A B	129/ B6	[556] [557]	<u>550</u> <u>551</u>
303	tcattcaccgttattg tcattcaactgtttattg	A B	129/ B6	[558] [559]	<u>552</u> <u>553</u>
304	ctgacatactgcttagg ctgacatattgcttagg	A B	129/ B6	[560] [561]	<u>554</u> <u>555</u>
305	ctagggaaaggctaaatt ctagggaaaacctaaatt	A B	129/ B6	[562] [563]	<u>556</u> <u>557</u>
306	atgtcaggatttaaga atgtcagggtttaaga	A B	129/ B6	[564] [565]	<u>558</u> <u>559</u>
307	ggtttccaattggaaag ggtttccagttggaaag	A B	129/ B6	[566] [567]	<u>560</u> <u>561</u>
308	cgaggagtgc当地gca cgaggagtcc当地gca	A B	129/ B6	[568] [569]	<u>562</u> <u>563</u>
309	tgtgtgtgtgtctgtct tgtgtgtgc当地gtctgtct	A B	129/ B6	[570] [571]	<u>564</u> <u>565</u>
310	gcaagatgc当地gtcat gcaagatgt当地gtcat	A B	129/ B6	[572] [573]	<u>566</u> <u>567</u>
311	gctggggctattctgt gctggggccattctgt	A B	129/ B6	[574] [575]	<u>568</u> <u>569</u>
312	caataacggacctgcct caataacgaacctgcct	A B	129/ B6	[576] [577]	<u>570</u> <u>571</u>

313	tagcctctcacatagg tagcctctgtacatagg	A B	129/ B6	[578]	<u>572</u>
				[579]	<u>573</u>

Other SNPs identified using the BJ1 DOP-PCR Primer include:

SNPs present within DOP-PCR using primer BJ1

<u>ASO name</u>	<u>ASO sequence</u>	12-01	104-01	884-01	1331-01	
3A-G	CATCTATAAGGTTCACTT	GT	TT	TT	TT	[580] <u>574</u>
3A-T	CATCTATATGTTCACTT					[581] <u>575</u>
5A-C	GCCAACAACATTGAGAG	GG	CG	GG	GG	[582] <u>576</u>
5A-G	GCCAACAAGATTGAGAG					[583] <u>577</u>
7A-C	GGGTCGTGCGTCCCCCT	TT	CT	TT	TT	[584] <u>578</u>
7A-T	GGGTCGTGTGTCCCCCT					[585] <u>579</u>
9A-A	ATTGTCTCACATTCTT	AA	GG	AA	AA	[586] <u>580</u>
9A-G	ATTGTCTCGCATTCTT					[587] <u>581</u>
12A-C	GGTGTGGTCGCAGAAGG	CC	CC	CT	CT	[588] <u>582</u>
12A-T	GGTGTGGTTGCAGAAGG					[589] <u>583</u>
15A-A	TCATTGCCACACTTGAA	AA	GG	AA	GG	[590] <u>584</u>
15A-G	TCATTGCCGCACTTGAA					[591] <u>585</u>
20A-A	ATCTGTCTACAAATGATC	AG	GG	AA	AG	[592] <u>586</u>
20A-G	ATCTGTCTGCAATGATC					[593] <u>587</u>
22A-A	GGCTGGGCACAGTGGCT	AA	GG	AA	AA	[594] <u>588</u>
22A-G	GGCTGGGCGCAGTGGCT					[595] <u>589</u>
34A-A	CAGCCTGGAGAACAAAGT	CC	CC	CC	AC	[596] <u>590</u>
34A-C	CAGCCTGGCGAACAAAGT					[597] <u>591</u>
39A-C	TTTGACACCCGGAAGCT	CT	CC	CC	CC	[598] <u>592</u>
39A-T	TTTGACACTCGGAAGCT					[599] <u>593</u>
40A-C	CTGCCTTCATACTGCC	CT	TT	CT	TT	[600] <u>594</u>
40A-T	CTGCCTTTATACTGCC					[601] <u>595</u>
40B-C	ACAATAGACGTTCCCCG	TT	CT	TT	CT	[602] <u>596</u>
40B-T	ACAATAGATGTTCCCCG					[603] <u>597</u>
41A-A	GGTGTGGATTGTACT	CC	AC	CC	CC	[604] <u>598</u>
41A-C	GGTGTGGCTTTGTACT					[605] <u>599</u>
42A-A	TCCAActCTAAAAATGT	AT	AA	AT	AT	[606] <u>600</u>
42A-T	TCCAActCTAAAAATGT					[607] <u>601</u>
44A-C	GGGCCGCTCACAGTCCA	CC	CT	CC	CC	[608] <u>602</u>
44A-T	GGGCCGCTTACAGTCCA					[609] <u>603</u>
44B-C	GCATGGCTCGTGGGTT	CT	CT	TT	CT	[610] <u>604</u>
44B-T	GCATGGCTTGTGGGTT					[611] <u>605</u>
46A-G	GTTGGGAAGTGGAGCGG	GG	TT	GG	TT	[612] <u>606</u>
46A-T	GTTGGGAATTGGAGCGG					[613] <u>607</u>
50A-A	AAGGGATGAGGATGTGA	AG	AA	AA	AG	[614] <u>608</u>
50A-G	AAGGGATGGGGATGTGA					[615] <u>609</u>
50B-A	TCCTCGAGAGCTTGCT	AG	AG	AA	AG	[616] <u>610</u>

50B-G	TCCTCGAGGGCTTGCT				[617]	<u>611</u>
51A-C	TGACAATGCGTGCCAA	CT	CC	CC	[618]	<u>612</u>
51A-T	TGACAATGTGTGCCAA				[619]	<u>613</u>
53A-A	TCCATGTCATAGATTTC	AG	AA	AA	[620]	<u>614</u>
53A-G	TCCATGTCGTAGATTTC				[621]	<u>615</u>
66A-A	TGGAGGACAGTGGAGGG	TT	TT	TT	[622]	<u>616</u>
66A-T	TGGAGGACTGTGGAGGG				[623]	<u>617</u>
69A-C	ACCCATTCCTGAAAAT	TT	CT	TT	[624]	<u>618</u>
69A-T	ACCCATTTCCTGAAAAT				[625]	<u>619</u>
71A-G	CTGAGTTCGGCACTGCT	TT	GG	GG	[626]	<u>620</u>
71A-T	CTGAGTTCTGCACTGCT				[627]	<u>621</u>
71B-G	ACCAGTTGGCTCAAAG	GG	TT	TT	[628]	<u>622</u>
71B-T	ACCAGTTTGCTCAAAG				[629]	<u>623</u>
72A-A	CCAATCAGAACGTGCAG	AA	GG	GG	[630]	<u>624</u>
72A-G	CCAATCAGAGCGTGCAG				[631]	<u>625</u>
73A-A	ACCCACACAGACACTGC	AA	AT	TT	[632]	<u>626</u>
73A-T	ACCCACACTGACACTGC				[633]	<u>627</u>
81A-C	GGACAAAGCGCTGGTGT	TT	CT	CC	[634]	<u>628</u>
81A-T	GGACAAAGTGTGGTGT				[635]	<u>629</u>
81C-C	AGCTGGTCCCCCTMCCC	TT	CT	CC	[636]	<u>630</u>
81C-T	AGCTGGTCTCCCTMCCC				[637]	<u>631</u>
90A-A	GGTGTAGTAAGCACAGC	AA	AA	AC	[638]	<u>632</u>
90A-C	GGTGTAGTCAGCACAGC				[639]	<u>633</u>
91A-C	AGCGAACACGGGGAAA	CC	CC	TT	[640]	<u>634</u>
91A-T	AGCGAACATGGGGAAA				[641]	<u>635</u>
98D-A	GTGACAGCACAAACTT	GG	AG	GG	[642]	<u>636</u>
98D-G	GTGACAGCGCCAAACTT				[643]	<u>637</u>
101A-C	GTCTGTTGCTGTTATT	TT	TT	TT	[644]	<u>638</u>
101A-T	GTCTGTTGTTGTTATT				[645]	<u>639</u>
111A-A	ACCAGCATAGCCCCAGAG	GG	GG	GG	[646]	<u>640</u>
111A-G	ACCAGCATGGCCCCAGAG				[647]	<u>641</u>
111B-A	CGTAGGAGACAAGACCT	GG	GG	GG	[648]	<u>642</u>
111B-G	CGTAGGAGGAAGACCT				[649]	<u>643</u>
117A-A	CTCTGCTGAATCTCCA				[650]	<u>644</u>
117A-G	CTCTGCTGGATCTCCA	GG	GG	AG	[651]	<u>645</u>
124A-A	AAGCAAAGACTGATTCA	TT	AT	TT	[652]	<u>646</u>
124A-T	AAGCAAAGTCTGATTCA				[653]	<u>647</u>
125A-A	AGGCAGCTAGAGGGAGA	CC	AA	AC	[654]	<u>648</u>
125A-C	AGGCAGCTCGAGGGAGA				[655]	<u>649</u>
130C-C	TTCCATTCCGTTCAATT	TT	TT	TT	[656]	<u>650</u>
130C-T	TTCCATTCTGTTCAATT				[657]	<u>651</u>
130D-C	TATTGTTACTGATTTG	CT	CT	CT	[658]	<u>652</u>
130D-T	TATTGTTATTGATTTG				[659]	<u>653</u>
136A-A	GAGCTTCAGAGGGCTGA	AA	AG	AG	[660]	<u>654</u>
136A-G	GAGCTTCGGAGGGCTGA				[661]	<u>655</u>
137A-A	GGGGGAAGATATGGAGT	GG	AG	AA	[662]	<u>656</u>

137A-G	GGGGGAAGGTATGGAGT				[663]	<u>657</u>
143A-C	CATGGCCTCGTGGGTTT	TC	TC	TT	[664]	<u>658</u>
143A-T	CATGGCCTTGTGGGTTT				[665]	<u>659</u>
147B-A	GGGKAGGGAGACCAGCT	AA	AG	GG	[666]	<u>660</u>
147B-G	GGGKAGGGGGACCAGCT				[667]	<u>661</u>
147C-A	GCAGTGTCAAGTGTGGGT	TT	AT	AA	[668]	<u>662</u>
147C-T	GCAGTGTCTGTGTGGGT				[669]	<u>663</u>
147D-A	ACACCAGCACTTGATC	AA	AG	GG	[670]	<u>664</u>
147D-G	ACACCAGCGCTTGATC				[671]	<u>665</u>
151A-A	CCTTCTGCAACCACACC	GG	GG	AG	[672]	<u>666</u>
151A-G	CCTTCTGCGACCACACC				[673]	<u>667</u>
163A-A	AAATTCCGAGGAGCCGA	GG	AG	GG	[674]	<u>668</u>
163A-G	AAATTCCGCGGGAGCCGA				[675]	<u>669</u>
164B-A	AGGTCTAGACGCTCACC	AG	GG	AG	[676]	<u>670</u>
164B-G	AGGTCTAGGCGCTCACC				[677]	<u>671</u>
164C-A	GGAGGAACACTTCAAAC6	GG	AG	GG	[678]	<u>672</u>
164C-G	GGAGGAACGCTTCAAAC				[679]	<u>673</u>
170A-A	TTTGTGCTATAACCTTGA	AA	AG	AG	[680]	<u>674</u>
170A-G	TTTGTGCTGTACCTTGA				[681]	<u>675</u>
179A-C	ATGATGCACACACCCCTG	CT	CC	TT	[682]	<u>676</u>
179A-T	ATGATGCATACACCCCTG				[683]	<u>677</u>
181B-C	TATTGCTCCGCCTCCTC	CT	TT	CC	[684]	<u>678</u>
181B-T	TATTGCTCTGCCCTCCTC				[685]	<u>679</u>
181D-C	CTCAGAGACTGTGTGCC	CG	CC	CC	[686]	<u>680</u>
181D-G	CTCAGAGAGTGTGTGCC				[687]	<u>681</u>
187A-C	ATCTTCTGCGTCACTCA	CT	CT	CC	[688]	<u>682</u>
187A-T	ATCTTCTGTGTCACTCA				[689]	<u>683</u>
187B-A	CAGCATCTAGTAACCAC	AG	AA	GG	[690]	<u>684</u>
187B-G	CAGCATCTGGTAACCAC				[691]	<u>685</u>
190A-C	ATTAGTGCCAAATACAT	CC	CC	CT	[692]	<u>686</u>
190A-T	ATTAGTGTAAATACAT				[693]	<u>687</u>
195B-A	TGCTCACAGCAGCCGT	AT	TT	TT	[694]	<u>688</u>
195B-T	TGCTCCACTGCAGCCGT				[695]	<u>689</u>
196A-A	TAGGGGAGAACATCTGTTT	CC	AC	AC	[696]	<u>690</u>
196A-C	TAGGGGAGCATCTGTTT				[697]	<u>691</u>

B2 5'Rev	ACTGAGCCATCTCWCCAG		W=A+T		253
101	acttaacttaagctggc gtacttaa-----gctggcctg	A B	129/ b6/fvb/f1		254 255
102	actctaataatcccacag actctaataatcccacag	A B	129/fvbn/f1 b6		256 257
	cggatcggtcttagttc	C	129/cast		258

	cggtatcgatctatgttc	D	spre	259
103	tcaaccataaggagg	A	129/b6/fvb/f1	260
	tcaaaccaggtaaggagg	B	f1	261
104	gtgtgtgtgtggggggg	A	129/f1	262
	gtgtgtgt---gggggggt	B	b6/fvbn	263
	cttaataataattcat	C	129/cast	264
	cttaataacaattcat	D	spre	265
105	gtgtctccatatgtgt	A	129/b6/f1	266
	gtgtctacacatgtgt	B	fvbn	267
106	aactcatcatgatggtt	A	129/	268
	aactcataatgatggtt	B	b6/fvbn/f1	269
	aactcatcacatggtt	C	cast	270
	atcactcatagcccaga	D	129/	271
	atcacttatagcccaga	F	spre	272
	atcactcatatcccaga	E	cast	273
107	catcttaccagcattga	A	129/cast/spre	274
	catcttactagcattga	B	b6/fvbn/f1	275
108	agttagccggctctggc	A	129/b6/f1	276
	agttagccagctctggc	B	fvbn/f1	277
	gggttaggagtggggatgag	C	129/	278
	gggcaggagtgggggtgag	E	spre	279
	gggttaggagtgggggtgag	D	cast	280
109	tcaatatttttttttttc	A	129/f1/spre	281
	tcaatatttttttttttc	B	b6/fvbn/f1/cast	282
110	agcagagactgagctcg	A	129/	283
	agcagagaccgagctcg	B	b6/fvbn/f1	284
	acaggggtcgattcgtc	C	129/b6/fvbn/f1/cast	285
	acagggatcgattcgtc	E	spre	286
	acaggggtcgattcgtc	D	f1	287
111	tccaaaggcattcaagg	A	129/b6/f1	288
	tccaaagtattcaagg	B	fvbn/f1	289
	gaccagggttaatgact	C	129/b6	290

	gaccaggggctaatact	D	cast/spre	291
112	ctattaacagagtcgag	A	129/b6/f1	292
	ctattaacggagtcgag	B	fvbn	293
113	gtgatactggatgtctg	C	129/b6	294
	gtgataccg-atgtctgg	D	cast/spre	295
114	ctctctcgatagtctaa	A	129/f1	296
	ctctctcgctagtctaa	B	b6/fvbn/f1/cast	297
115	tctctcgatagtctaat	C	129/	298
	tctctcgctggctaat	D	cast	299
116	agatgcaaaattcttag	A	129/	300
	agatgcacagttcttag	B	b6/fvbn/f1	301
117	ggaaaatgctcaggtag	A	129/f1/cast/spre	302
	ggaaaatgttcaggtag	B	b6/fvbn	303
118	tctgggcagagtgcagg	A	129/	304
	tctgggcagcgtgcagg	B	b6/fvb/f1	305
119	tatggaacggttgcttc	A	129/fvb	306
	tatggaactgttgcttc	B	b6/f1	307
120	aagcctggtacccgctg	C	129/cast	308
	aagcctggcacccgctg	D	spre	309
121	cattttttttttctga	A	129/	310
	cattttcgtttctga	B	b6/fvbn/f1/cast/spre	311
122	ctgcaggcttgcgtgt	C	129/CAST	312
	ctgcagggttgtctgt	D	spre	313
123	tgcatttcctataaca	A	129/f1	314
	tgcatttgctataaca	B	b6/fvbn	315
124	ccgccacacccgtcct	A	129/b6	316
	ccgccacagccgtcct	B	fvbn/f1	317
125	caaataatgctagttat	A	129/b6/f1	318
	caaataatgttagttat	B	fvbn	319
126	ggatgttgcacacgctac	A	129/fvbn/f1	320
	ggatgttgcacgctac	B	b6/f1	321

	catgtgtc-caacgccat catgtgtcacaacgcca	C D	129/ cast/spre	322 323
123	aaagggggccttaaggaa aaaggggccttaaggaa	A B	129/fvbn/f1 b6	324 325
	tgaaaagtctttcat tgaaaagtactttcat	C D	129/cast spre	326 327
124	cctcttatgttgagc cctcttacgttgagc	A B	129/b6/f1 fvbn	328 329
	gaagtttaggagattct-t gaagatttaggagagtctc	C D	129/ spre	330 331
125	aggatgtatTTTgtta aggatgtgtttgtta	A B	129/fvbn/f1 b6	332 333
	acaattcaaATgtatat acaattcatatgtatat	C D	129/cast spre	334 335
126	cttgcctaaccTgcaca cttgcctagcctgcaca	A B	129/b6/f1 fvbn	336 337
	caacagc---acctcatatc acagcggtgcctcgat	C D	129/bt/cast spre	338 339
127	actcacagtgtcaggGC actcacagcgtcaggGC	A B	129/fvbn/f1/spre b6/cast	340 341
	ggctgctcCTgtgtctg ggcttcCTgtgtctg ggctgctcCTgtgttctg	A B C	129/fvbn/f1/cast b6 spre	342 343 344
129	aatAGATGCCCTCTGA aatAGATGCCCTCTGA aatCGATGCCCTCTGA	A B C	129/f1 b6/fvbn spre	345 346 347
	ttggTCTAGCAGGTAGC ttggTCTACCAAGGTAGC	A B	129/fvbn/f1 b6	348 349
	agcTTGGCTTAA agcTTGGTCTTAA	C D	129/cast spre	350 351
131	agtctctggcgccTTG	A	129/fvbn/f1/cast/spre	352

	agtctctggccgccttg	B	b6	353
132	tagcaggaggcacagctta	A	129/	354
	aagcaggaggcacactta	B	b6	355
	aagcaggaggcacagctta	C	fvb/f1/CAST	356
	tagcaggaggcacagcttg	D	spre	357
133	aggagagaccggactcc	A	129/fvb/f1	358
	aggagagagcgactcc	B	b6	359
134	tacaagtcatccttcct	A	129/b6/f1	360
	tacaagtgcgtccttcct	B	fvbn/f1	361
	atacctccctcagacaa	C	129/cast	362
	atacctcc-tcagacaag	D	spre	363
135	aaacaaaacaaaacaaaacc	A	129/b6/f1/cast/spre	364
	aaacaaaacccaacaaaacc	B	fvbn	365
	gtgcgccaccatgacca	C	129/cast	366
	gtgcgccatcatgacca	D	spre	367
136	ggcttcccattagtgg	A	129/	368
	ggcttcctattagtgg	B	b6/fvbn/f1	369
	ccctcacctctctca	C	129/cast	370
	ccctcacccctctctca	D	spre	371
137	aatctctcgcgtcatt	A	129/fvbn/f1	372
	aatctctcacgttcatt	B	b6	373
138	aatgataccgatcctta	A	129/f1	374
	aatgatacagatcctta	B	b6/fvbn	375
	ataaaaactgcaattcgtg	C	129/b6	376
	ataaaaactacattcgtg	D	cast/spre	377
B1Musch	AGTTCCAGGACAGCCAGG			378
201	atatctccgactttgaa	A	129/cast	379
	atatctccaactttgaa	B	b6/fvb/f1/spre	380
	tggccctgcagagtctg	C	129-Cast	381
	tggctctgcagag-ctgg	D	Spre	382

202	caatggatc---aaagatgc atggatcaacaaagatg	A B	129-FVB-F1 B6	383 384
203	gctgcctc---aaggataa	C	129/b6	385
	ctgcctctaaggata	D	cast/spre	386
	acctatggctccatc	A	129/b6/f1	387
	acctatggtcctcatc	B	fvb	388
204	tcttctccctgttta	C	129-Cast	389
	tcttctcac-tgcttag	D	Spre	390
205	ccgc-ataaaaagctgag	A	FVB-F1	391
	ccgccataaaa-gctgag	B	B6-F1	392
206	agaatatagggttttt	C	129/cast	393
	tagaatacag--ttttttt	D	spre	394
207	agagttgctgtgcaggg	A	129/b6/f1	395
	agagttgcgtgcaggg	B	fvb/cast	396
	agagttgcagtgcaggg	C	spre	397
208	taagcagtgttcttggc	A	129-B6-F1	398
	taagcagtattcttggc	B	FVBN	399
209	tcttctccctgttta	C	129/Cast	400
	tcttctcac-tgcttag	D	spre	401
210	ttttttttattattga	A	129/fvb/f1	402
	tttttttt-attattgaa	B	b6	403
211	tgtggtacgcacatctg	C	129-Cast	404
	tgtggtacacacatctg	D	Spre	405
212	agactcttagacttctg	A	129/f1	406
	agactcttaggcttctg	B	b6/fvb/f1	407
	agactcataagcttctg	C	spre	408
	agactcttaggcttctg	D	cast	409
213	cacgtacccgaacgtga	A	129-B6	410
	cacgtacctgaacgtga	B	FVB-F1	411
214	attacggttgtcgta	C	129/CAST	412
	attacggtgtcgta	D	spre	413
215	ccaagatacgtaaaccag	A	129/f1/cast/spre	414
	ccaagatatacgaaaccag	B	b6	415

211	tgcaatgaccagcaacc tgcaacgaccagcaacc tgtaacgaccacaact	A B C	129/b6 fvb/f1/cast spre	416 417 418
212	tctaaaggaaagatgg tctaaagg-aaagatgga	A B	129-FVB B6-F1	419 420
213	ctggactcatacataca ctggactcgatacataca agtttggccctggac agtttggccctggac	A B C D	129-FVB-F1 B6-F1-Cast/SPRE 129/FVB/B6-F1-Cast Spre	421 422 423 424
214	tatagcttcatgtaaaa tatagctttatgtaaaa	A B	129/fvb/f1/cast/spre b6	425 426
215	ttttttt-attattgaa ttttttttattattgaa actcattgccatttaa actcattcagaatttaa	A B C D	129 B6-FVB-F1 129 spre/CAST	427 428 429 430
216	atgcgtaatggggcta atgcgtAACGGGGCTA ataattgcttttaaa gtaattgcttttaaa	A B C D	129 b6/fvb/f1/cast/SPRE 129/b6/fvb/f1/cast spre	431 432 433 434
217	tctgatttagtgatggat tctgatta-tgatggatt agcagagtgtctcgtaa agcagagtatctcgtaa	A B C D	129-F1 B6 129 spre/CAST	435 436 437 438
218	gctggcagatatcggt gctggcaggatcggt	A B	129/b6/f1 fvb/cast	439 440
219	aactgcaatgaccagca aactgcaacgaccagca gctggtcattgcagttt gttggtcgttacagttt gctggtcgttgcagttt	A B C D E	129-B6 FVB-F1 129 spre cast	441 442 443 444 445
220	gctggcagatatcggt	A	129-B6-F1	446

231	ttttatcataacaattgc ttttatcagacaattgc	A B	129/f1 b6/fvb	478 479
232	aaccagggttaagtct aaccagggttaagtct	A B	129 b6/fvb/f1	480 481
	cagaaaaacagatatac cagaaaaagagatatac	C D	129-B6-FVB-F1 Spre	482 483
234	tctgagcgtgagtgctg tctgagcgcgagtgctg	A B	129/fvb b6/f1/cast/spre	484 485
	acctcagaagcggaggt acctcggaaaggggaggt acctcggaaagcggaggt	C D E	129-B6-FVB-F1 Spre Cast	486 487 488
235	taactcgatcgctatca taactcgcttgcstatca taactcgctcgctatca	A B C	129-B6-F1 FVBN-Cast Spre	489 490 491
236	gaatttctcaacttctt gaatttctgaacttctt	A B	129/fvb/f1/spre b6/f1	492 493
237	caggggtcccccaatttg caggggtctccaatttg	A B	129/f1/SPRE b6/fvb	494 495
238	tttgctgtgc-aggcta tttactgtgccaggct	A B	129-B6-F1 FVB	496 497
	gacagccctgtctcaa agagaaaaccctgtctca	C D	129/cast spre	498 499
239	gcaccggctgaggcagt gcaccggtttggcaggct	A B	129/f1 b6/fvb/f1	500 501
	ccgtccccctgaacaat ccgtccccctgaacaat	C D	129-B6-FVB-F1-Cast Spre	502 503
240	tcacgttcgggtacgtg tcacgttcaggtagtgc	A B	129/b6/f1 fvb/f1	504 505
	tgattcgctggactct tgattcgccggactct	C D	129-Cast Spre	506 507
241	ttgatatccgaggcctt	A	129/b6/fvb/f1	508

	ttgatatctgaggcctt	B	f1/CAST/SPRE	509
242	tccctgggc当地	A	129/b6/fvb	510
	tccctgggtcaagcata	B	f1	511
243	ttatggctgaggatcac	A	129-B6-F1-Cast	512
	ttatggctgcggatcat	B	FVB	513
	ttatggcaggggatcac	C	Spre	514
244	ctctctgc当地gaagca	A	129/b6	515
	ctctctgctctgaagca	B	fvb/f1	516
	agatacagagatgtgtt	C	129-B6-FVB-F1	517
	agataactgagggtgttt	D	Spre	518
245	cgacatctggcagatgt	A	129/f1	519
	cgacatcttagcagatgt	B	b6/fvb	520
	gtcacaaatagtatttc	C	129/cast	521
	gtcacaaagagtatttc	D	Spre	522
246	aaggtgtgtgc当地gtgt	A	129/f1	523
	aaggtgtgc当地gtgtgt	B	fvb	524
247	agtcttttttccgtga	A	129-B6-FVB	525
	tagtc-tttttttt-cctgaa	B	F1	526
248	caggctgtggaggcctt	A	129/b6/f1	527
	caggctgc当地aggcctt	B	fvb	528
	ctgtaagt当地ttaata	C	129-B6-FVB-F1-Cast	529
	ctgtaagtaattcaata	D	Spre	530
249	caggggtcccccaatttg	A	129/f1	531
	caggggtctccaatttg	B	b6/fvb	532
250	gactcatggccgc当地tt	A	129	533
	gactcattgccgc当地gg	B	B6-FVB-F1	534
	gactcctggccgc当地gg	C	F1	535
	gactcctggctgc当地gg	D	Spre	536
	gactcctggccgc当地gg	E	Cast	537
251	acagggga-ggaaggaag	A	129	538
	acaggggaaggaaggaa	B	b6/fvb/f1	539
252	ttgatatagattgattc	A	129/b6/f1	540

	ttgatataattgattc	B	fvb/f1	541
	atagaacagcaaagtaa	C	129-B6-FVB-F1-Cast	542
	atagaacaacaaagtaa	D	Spre	543
253	aacaaggcatctatggat	A	129/fvb/f1	544
	aacaaggcacctatggat	B	b6	545
DOP				
300	gagcaggtaagcgatg	A	129/	546
	gagcaggtgaagcgatg	B	B6	547
301	ggcttccagcttgattc	A	129/	548
	ggcttccaacttgattc	B	B6	549
302	agatagggatgaatccc	A	129/	550
	agataggggtgaatccc	B	B6	551
303	tcattcaccgttattg	A	129/	552
	tcattcaactgttattg	B	B6	553
304	ctgacatactgcctagg	A	129/	554
	ctgacatattgcctagg	B	B6	555
305	ctaggaaaggctaaatt	A	129/	556
	ctaggaaaacctaaatt	B	B6	557
306	atgtcaggatttaaga	A	129/	558
	atgtcagggtttaaga	B	B6	559
307	ggttccaattgaaag	A	129/	560
	ggttccagttgaaag	B	B6	561
308	cgaggagtgc当地gca	A	129/	562
	cgaggagtcc当地gca	B	B6	563
309	tgtgtgtgtctgtct	A	129/	564
	tgtgtgtgc当地gtct	B	B6	565
310	gcaagatgc当地gtcat	A	129/	566
	gcaagatgt当地gtcat	B	B6	567
311	gctggggctattctgta	A	129/	568
	gctggggccattctgta	B	B6	569

312	caataacggacgcct caataacgaacctgcct	A B	129/ B6	570 571
313	tagcctctcacatagg tagcctctgtacatagg	A B	129/ B6	572 573

Other SNPs identified using the BJ1 DOP-PCR Primer include:

SNPs present within DOP-PCR using primer BJ1

<u>ASO name</u>	<u>ASO sequence</u>	12-01	104-01	884-01	1331-01	
3A-G	CATCTATAGGTTCACTT	GT	TT	TT	TT	574
3A-T	CATCTATATGTTCACTT					575
5A-C	GCCAACAAACATTGAGAG	GG	CG	GG	GG	576
5A-G	GCCAACAAGATTGAGAG					577
7A-C	GGGTCGTGCGTCCCCCT	TT	CT	TT	TT	578
7A-T	GGGTCGTGTGTCCCCCT					579
9A-A	ATTGTCTCACATTCTT	AA	GG	AA	AA	580
9A-G	ATTGTCTCGCATTCTT					581
12A-C	GGTGTGGTCGCAGAAGG	CC	CC	CT	CT	582
12A-T	GGTGTGGTTGCAGAAGG					583
15A-A	TCATTGCCACACTTGAA	AA	GG	AA	GG	584
15A-G	TCATTGCCGCACTTGAA					585
20A-A	ATCTGTCTACAATGATC	AG	GG	AA	AG	586
20A-G	ATCTGTCTGCAATGATC					587
22A-A	GGCTGGGCACAGTGGCT	AA	GG	AA	AA	588
22A-G	GGCTGGGCGCAGTGGCT					589
34A-A	CAGCCTGGAGAACAAAGT	CC	CC	CC	AC	590
34A-C	CAGCCTGGCGAACAAAGT					591
39A-C	TTTGACACCCGGAAGCT	CT	CC	CC	CC	592
39A-T	TTTGACACTCGGAAGCT					593
40A-C	CTGCCTTCATACTGCC	CT	TT	CT	TT	594
40A-T	CTGCCTTTATACTGCC					595
40B-C	ACAATAGACGTTCCCCG	TT	CT	TT	CT	596
40B-T	ACAATAGATGTTCCCCG					597
41A-A	GGTGTGGATTGTACT	CC	AC	CC	CC	598
41A-C	GGTGTGGCTTGTACT					599
42A-A	TCCAACCTAAAAATGT	AT	AA	AT	AT	600
42A-T	TCCAACCTAAAAATGT					601
44A-C	GGGCCGCTCACAGTCCA	CC	CT	CC	CC	602
44A-T	GGGCCGCTTACAGTCCA					603
44B-C	GCATGGCTCGTGGGTTT	CT	CT	TT	CT	604
44B-T	GCATGGCTTGTGGGTTT					605
46A-G	GTTGGGAAGTGGAGCGG	GG	TT	GG	TT	606
46A-T	GTTGGGAATTGGAGCGG					607
50A-A	AAGGGATGAGGATGTGA	AG	AA	AA	AG	608

50A-G	AAGGGATGGGATGTGA				609	
50B-A	TCCTCGAGAGCTTGCT	AG	AG	AA	AG	610
50B-G	TCCTCGAGGGCTTGCT					611
51A-C	TGACAATGCGTGCCAA	CT	CC	CC	CC	612
51A-T	TGACAATGTGTGCCAA					613
53A-A	TCCATGTCATAGATTTC	AG	AA	AA	AA	614
53A-G	TCCATGTCGTAGATTTC					615
66A-A	TGGAGGACAGTGGAGGG	TT	TT	TT	AT	616
66A-T	TGGAGGACTGTGGAGGG					617
69A-C	ACCCATTCTCTGAAAAT	TT	CT	TT	TT	618
69A-T	ACCCATTCTCTGAAAAT					619
71A-G	CTGAGTTCGGCAGTGCT	TT	GG	GG	TT	620
71A-T	CTGAGTTCTGCACTGCT					621
71B-G	ACCAGTTGGCTCAAAG	GG	TT	TT	GG	622
71B-T	ACCAGTTTGCTCAAAG					623
72A-A	CCAATCAGAACGTGCAG	AA	GG	GG	AA	624
72A-G	CCAATCAGAGCGTGCAG					625
73A-A	ACCCACACAGACACTGC	AA	AT	TT	AT	626
73A-T	ACCCACACTGACACTGC					627
81A-C	GGACAAAGCGCTGGTGT	TT	CT	CC	CT	628
81A-T	GGACAAAGTGTGGTGT					629
81C-C	AGCTGGTCCCCCTMCCC	TT	CT	CC	CC	630
81C-T	AGCTGGTCTCCCTMCCC					631
90A-A	GGTGTAGTAAGCACAGC	AA	AA	AC	AA	632
90A-C	GGTGTAGTCAGCACAGC					633
91A-C	AGCGAACACGGGGAAA	CC	CC	TT	CC	634
91A-T	AGCGAACATGGGGAAA					635
98D-A	GTGACAGCACCAAACCT	GG	AG	GG	GG	636
98D-G	GTGACAGCGCCAAACCT					637
101A-C	GTCTGTTGCTGTTATT	TT	TT	TT	CT	638
101A-T	GTCTGTTGTTGTTATT					639
111A-A	ACCAGCATAGCCCAGAG	GG	GG	GG	AG	640
111A-G	ACCAGCATGGCCCAGAG					641
111B-A	CGTAGGAGACAAGACCT	GG	GG	GG	AG	642
111B-G	CGTAGGAGGCAAGACCT					643
117A-A	CTCTGCTGAATCTCCA		GG	GG	AG	644
117A-G	CTCTGCTGGATCTCCA					645
124A-A	AAGCAAAGACTGATTCA	TT	AT	TT	TT	646
124A-T	AAGCAAAGTCTGATTCA					647
125A-A	AGGCAGCTAGAGGGAGA	CC	AA	AC	AA	648
125A-C	AGGCAGCTCGAGGGAGA					649
130C-C	TTCCATTCCGTTCAATT	TT	TT	TT	CC	650
130C-T	TTCCATTCTGTTCAATT					651
130D-C	TATTGTTACTGATTTG	CT	CT	CT	TT	652
130D-T	TATTGTTATTGATTTG					653
136A-A	GAGCTTCAGAGGGCTGA	AA	AG	AG	AG	654

136A-G	GAGCTTCGGAGGCTGA				655	
137A-A	GGGGGAAGATATGGAGT	GG	AG	AA	AG	656
137A-G	GGGGGAAGGTATGGAGT					657
143A-C	CATGGCCTCGTGGGTTT	TC	TC	TT	TC	658
143A-T	CATGGCCTTGTGGGTTT					659
147B-A	GGGKAGGGAGACCAGCT	AA	AG	GG	GG	660
147B-G	GGGKAGGGGGACCAGCT					661
147C-A	GCAGTGTCA GTGGGT	TT	AT	AA	AT	662
147C-T	GCAGTGTCTGTGTGGGT					663
147D-A	ACACCAGCACTTGATC	AA	AG	GG	AG	664
147D-G	ACACCAGCGCTTGATC					665
151A-A	CCTTCTGCAACCACACC	GG	GG	AG	AG	666
151A-G	CCTTCTGCGACCACACC					667
163A-A	AAATT CGCAGGAGCCGA	GG	AG	GG	GG	668
163A-G	AAATT CGCGGGAGCCGA					669
164B-A	AGGTCTAGACGCTCACC	AG	GG	AG	GG	670
164B-G	AGGTCTAGGC GCTCACC					671
164C-A	GGAGGAACACTTCAAAC6	GG	AG	GG	GG	672
164C-G	GGAGGAACGCTTCAAAC					673
170A-A	TTTGTGCTATA CCTTGA	AA	AG	AG	AG	674
170A-G	TTTGTGCTGTACCTTGA					675
179A-C	ATGATGCACACACCCTG	CT	CC	TT	CC	676
179A-T	ATGATGCATACACCCTG					677
181B-C	TATTGCTCCGCCTCCTC	CT	TT	CC	TT	678
181B-T	TATTGCTCTGCCTCCTC					679
181D-C	CTCAGAGACTGTGTGCC	CG	CC	CC	CC	680
181D-G	CTCAGAGAGTGTGTGCC					681
187A-C	ATCTTCTGCGTC ACTCA	CT	CT	CC	CC	682
187A-T	ATCTTCTGTGTCACTCA					683
187B-A	CAGCATCTAGTAACCAC	AG	AA	GG	AG	684
187B-G	CAGCATCTGGTAACCAC					685
190A-C	ATTAGTGCCAAATACAT	CC	CC	CT	CT	686
190A-T	ATTAGTGTAAATACAT					687
195B-A	TGCTCCACAGCAGCCGT	AT	TT	TT	TT	688
195B-T	TGCTCCACTGCAGCCGT					689
196A-A	TAGGGGAGAATCTGTTT	CC	AC	AC	AA	690
196A-C	TAGGGGAGCATCTGTTT					691